

Amendments to the Claims

1. (currently amended) A method of converting a modality of multimedia contents to support Quality of Service (QoS) of the multimedia contents according to media resources, comprising the steps of:

~~receiving a modality conversion descriptor in which characteristics of modality conversion of the multimedia contents are described;~~

receiving the multimedia contents; and

The method of claim 12 further comprising, after operation (3), converting the modality of the multimedia contents item's modality into [[a]] the desired modality, that is determined according to a media resource and the modality conversion descriptor.

2. (currently amended) The method according to claim 1, wherein the media resource is ~~the one or more media resources are one or more resources of a network or terminal to which the multimedia item is~~ contents are provided in the desired modality.

3. (canceled) The method according to claim 1, wherein the modality conversion descriptor describes content value specifications are obtained from content value curves and scale factors for said modalities, of the multimedia contents.

4. (currently amended) The method according to claim 3, wherein the modality conversion step operation (3) comprises the steps of :

obtaining conversion boundaries using the content value curves and scale factors for the modalities; and

determining an optimal the desired modality for the media resource using the conversion boundaries; and

converting the multimedia contents into the determined optimal modality.

5. (currently amended) The method according to claim 4, wherein the conversion boundaries are resource values at which of the media resource corresponding to intersection points where the content value curves associated with overlapping ranges intersect with each other when the content value curves for the modalities overlap with each other according to the scale factors.

6. (original) The method according to claim 3, wherein each of the content value curves is obtained by combining content value curves that are measured according to two or more different qualities.

7. (currently amended) An apparatus for performing the method of claim 12,
~~converting a modality of multimedia contents to support QoS of the multimedia contents according to media resources, comprising:~~

~~means for receiving a modality conversion descriptor in which characteristics of modality conversion of the multimedia contents are described; and~~

~~means for converting the modality of the multimedia contents into a modality that is determined according to a media resource and the modality conversion descriptor.~~

8. (currently amended) [[The]] An apparatus for performing the method of claim 1,
~~according to claim 7, wherein the modality conversion descriptor describes content value curves and scale factors for modalities of the multimedia contents.~~

9. (currently amended) [[The]] An apparatus for performing the method of claim 19,

~~according to claim 8, wherein the modality conversion means comprises:~~

~~means for obtaining conversion boundaries using the content value curves and scale factors for the modalities; and~~

~~means for converting the modality of the multimedia contents into the determined optimal modality.~~

10. (currently amended) [[The]] An apparatus for performing the method of claim 13,

~~according to claim 9, wherein the conversion boundaries are values of the media resource corresponding to intersection points where the content value curves intersect with each other when the content value curves of the modalities overlap with each other according to the scale factors.~~

11. (currently amended) [[The]] An apparatus for performing the method of claim 14.

~~according to claim 8, wherein each of the content value curves is obtained by combining content value curves that are measured according to two or more different qualities.~~

12. (new) In a system for processing multimedia contents, a method for selecting a desired modality from a plurality of modalities each of which is adoptable by a multimedia item as an alternative to any other modality of the plurality of modalities, the desired modality being for adopting the multimedia item to one or more media resources, the method comprising:

- (1) for each said modality, obtaining a content value specification associated with a range of one or more resource values each of which is a value of the one or more media resources, the content value specification providing a content value for each of said one or more resource values in the associated range, wherein the ranges associated with at least two of the modalities overlap;
- (2) obtaining a resource value v1 belonging to at least two of the ranges; and
- (3) selecting the desired modality from the modalities whose associated ranges contain the resource value v1, the desired modality being selected using the content value specifications of the modalities whose associated ranges contain the resource value v1.

13. (new) In a system for processing multimedia contents, a method for building an overlap content model for a multimedia item which is available in any one of a plurality of alternative modalities, the overlap content model being for providing a desired modality from the plurality of modalities in response to a resource value which is a value of one or more media resources, the method comprising:

- (1) for each said modality, obtaining a content value specification associated with a range of one or more resource values each of which is a value of the one or more media resources, the content value specification providing a content value for each of said one or more resource values in the associated range, wherein the ranges associated with at least two of the modalities overlap;

(2) determining, from the content value specifications, sub-ranges of said ranges, wherein for each sub-range, one of the content value specifications provides a maximum content value for each resource value in the sub-range, wherein the modality associated with said one of the content value specifications is the desired modality for each resource value in the sub-range;

wherein at least one of the sub-ranges includes a resource value belonging to at least two of said ranges.